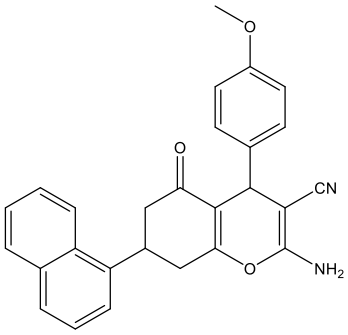
Catalog # 10-4880
UCPH-101

CAS# 1118460-77-7

2-Amino-4-(4-methoxyphenyl)-7-naphthalen-1-yl-5-oxo-4,6,7,8-tetrahydrochromene-3-carbonitrile

Lot # FBS2063



UCPH-101 is a potent (IC_{50} = 660 nM) and selective inhibitor of the excitatory amino acid transporter 1 (EAAT1).[1,2] It induced cell death in glioblastoma cells *via* intracellular glutamate accumulation. UCPH-101 also significantly increased survival in glioma-bearing mice.[3]

1) Jensen *et al*. (2009), *Discovery of the First Selective Inhibitor of Excitatory Amino Acid Transporter Subtype 1;* J. Med. Chem., **52** 912
2) Erichsen *et al*. (2010), *Structure-Activity Relationship Study of the First Selective Inhibitor of Excitatory Amino Acid Transporter Subtype 1: 2-Amino-4-(4-methoxyphenyl)-7-(naphthalen-1-yl)-5-oxo-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile (UCPH-101);* J. Med. Chem., **53** 7180
3) Corbetta *et al*. (2019), *Altered function of the glutamate-aspartate transporter GLAST, a potential therapeutic target in glioblastoma*; Int. J. Cancer, **144** 2539

PHYSICAL DATA

Molecular Weight:	422.48
Molecular Formula:	$C_{27}H_{22}N_2O_3$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (10 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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